

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1027	H01M002/36.ipc.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/24 08:42
S2	207	(battery (electrochemical near3 (cell device))) and (((Port hole inlet inject injection) near3 electrolyt\$4) same vent)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/24 08:53
S3	258	(battery (electrochemical near3 (cell device))) and (((Port hole inlet inject injection) near3 electrolyt\$4) same (vent exhaust))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/24 09:03
S4	2446	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/24 09:28
S5	3908	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/24 09:29
S6	52	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) with (slop\$3 concave taper\$3 funnel gradient inclin\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/24 09:33
S7	581	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) same (insulat\$4 dielectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/24 10:26

S8	466	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) same (insulat\$4 dielectric)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 08:50
S9	7395	429/57,72,82,94,122,163,164,174,175,185.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; BM_TDB	OR	OFF	2008/06/26 09:01
S10	6600	429/57,72,82,94,122,163,164,174,175,185.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:01
S11	512	S10 and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:01
S12	3	("2003/0077505").URPN.	USPAT	OR	OFF	2008/06/26 09:17
S13	0	("2004/0048158").URPN.	USPAT	OR	OFF	2008/06/26 09:17
S14	0	("2004/0072073").URPN.	USPAT	OR	OFF	2008/06/26 09:17
S15	0	("2004/0106047").URPN.	USPAT	OR	OFF	2008/06/26 09:20
S16	2	("2004/0142241").URPN.	USPAT	OR	OFF	2008/06/26 09:23
S17	1	("2004/0142240").URPN.	USPAT	OR	OFF	2008/06/26 09:23
S18	0	("2004/0146775").URPN.	USPAT	OR	OFF	2008/06/26 09:24
S19	0	("2005/0089753").URPN.	USPAT	OR	OFF	2008/06/26 09:26
S20	2	("2005/0112460").URPN.	USPAT	OR	OFF	2008/06/26 09:27
S21	1	("2005/0112456").URPN.	USPAT	OR	OFF	2008/06/26 09:27
S22	0	("2006/0024574").URPN.	USPAT	OR	OFF	2008/06/26 09:31

S23	0	("2006/0073382").URPN.	USPAT	OR	OFF	2008/06/26 09:32
S24	0	("2006/0073382").URPN.	USPAT	OR	OFF	2008/06/26 09:32
S25	0	("2006/0099501").URPN.	USPAT	OR	OFF	2008/06/26 09:33
S26	0	("2006/0099490").URPN.	USPAT	OR	OFF	2008/06/26 09:39
S27	0	("2006/0263685").URPN.	USPAT	OR	OFF	2008/06/26 09:45
S28	9	("20030082441"   "20050106454"   "20050112456"   "20050151514"   "3948441"   "6210824"   "6432575"   "6824917"   "6994926").PN. OR ("7248021").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:49
S29	4	("6482550"   "6638662"   "6660432"   "6805996").PN. OR ("7255963").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:51
S30	5	("20040121239"   "5776627"   "5879834"   "6200706"   "6573004").PN. OR ("7285361").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:52
S31	374	S11 not S8	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:54
S32	32	("2667527"   "2932681"   "2991324"   "3230112"   "3291644"   "3862861"   "4308322").PN. OR ("4421832"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 09:57
S33	5	("4939050"   "5595835").PN. OR ("6355372").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 10:21
S34	1777	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 10:50
S35	1082	S34 not S8 not S11	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 10:51
S36	9	("4943497"   "5705290"   "5853912"   "6258477"   "6274264"   "6284403"   "6303246"   "6322921").PN. OR ("6403250").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 11:26
S37	0	("2005/0095502").URPN.	USPAT	OR	OFF	2008/06/26 11:34

S38	813	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) same (insulat\$4 dielectric plastic resin)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/26 12:21
S39	18	("4658795"   "5344724"   "5665483"   "5672443"   "6004692").PN. OR ("6132900").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 12:37
S40	1	"20030180582".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/26 13:03
S41	3	("2003/0077505").URPN.	USPAT	OR	OFF	2008/06/26 13:23
S42	0	("2006/0263685").URPN.	USPAT	OR	OFF	2008/06/26 13:28
S43	0	("2006/0263685").URPN.	USPAT	OR	OFF	2008/06/26 14:22
S47	2	DE-3339933-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 08:39
S48	0	DE-03339933-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 08:39
S49	0	wo-2003003485-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 11:30

S50	1	wo-03003485-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 11:30
S51	2	JP-2000208130-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/27 11:31
S52	3346	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:47
S53	2339	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:47
S54	1969	"429"/\$.ccls. and ((Port hole inlet) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:47
S55	28	"429"/\$.ccls. and ((Port hole inlet) near3 electrolyt\$4) with (slop\$3 inclin\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:49
S56	2	"429"/\$.ccls. and ((Port hole inlet) near3 electrolyt\$4) and (slop\$3 inclin\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 10:53
S57	28	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4) with (slop\$3 inclin\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:54
S58	2	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4) and (slop\$3 inclin\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 10:54
S59	27	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) and (slop\$3 inclin\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 10:55

S60	102	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4) with (inside outside exterior interior inner outer surface face internal external) with (size diameter area larg\$3 small\$3 big\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 10:58
S61	207	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) and (inside outside exterior interior inner outer surface face internal external) and (size diameter area larg\$3 small\$3 big\$4)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 11:15
S62	1	"3840403".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 11:17
S63	1	"4113925".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 11:20
S64	7786773	JP-2002358948-\$2.did. JP-2001313022-\$2.did. JP-11025936-\$2.did. JP-2000156219-\$2.did. JP-2000021437-\$2.did. "6." Patent Application "No." 2003-048860 (JP,2004-259584,A number) "7." JP,2003-085344,A number (JP,2004-296195,A number) "8." JP,2001-394894,A number (JP,2003-197179,A number) "9." Patent Application "No." 2002-284806 (JP,2004-119329,A number)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 11:46
S65	24	JP-2002358948-\$2.did. JP-2001313022-\$2.did. JP-11025936-\$2.did. JP-2000156219-\$2.did. JP-2000021437-\$2.did. JP-2004259584-\$2.did. JP-2003048860-\$2.did. JP-2003085344-\$2.did. JP-2004296195-\$2.did. JP-2001394894-\$2.did. JP-2003197179-\$2.did. JP-2002284806-\$2.did. JP-2004119329-\$2.did.	JPO; DERWENT	OR	ON	2009/03/03 11:48
S66	4	JP-11025936-\$2.did. JP-2000021437-\$2.did.	JPO; DERWENT	OR	ON	2009/03/03 12:10
S67	2	JP-2004259584-\$2.did.	JPO; DERWENT	OR	ON	2009/03/03 12:13
S68	969	"429"/\$.ccls. and ((inject injection) with electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/03 16:05
S69	1147	(battery (electrochemical near3 (cell device))) and ((inject injection) with electrolyt\$4)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 16:06

S70	1147	(battery (electrochemical near3 (cell device))) and ((inject injection) with electrolyt\$4)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 16:06
S71	1436	(battery (electrochemical near3 (cell device))) and (inject injection) and electrolyt\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 16:06
S72	149	Hitachi.as. and plug and (electrolyt\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 16:58
S73	52	Hitachi.as. and plug and (electrolyt\$3) and (battery (electrochemical near3 (cell device)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/03 16:58
S74	1	"4592970".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/04 08:48
S75	969	"429"/\$.cls. and ((inject injection) with electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/04 09:51
S76	1436	(battery (electrochemical near3 (cell device))) and (inject injection) and electrolyt\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 09:51
S77	1436	S76 not S75	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 09:51
S78	969	"429"/\$.cls. and ((inject injection) with electrolyt\$4)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2009/03/04 09:51

S79	1436	S77 not S78	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 09:52
S80	1	"6080471".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/04 10:53
S81	103	samsung.as. and (battery (electrochemical near3 (cell device))) and (inject injection) and electrolyt\$4	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 12:26
S82	202	samsung.as. and (battery (electrochemical near3 (cell device))) and (inject injection) and electrolyt\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 12:26
S83	2	JP-06096793-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 13:28
S84	2	JP-2001313022-\$2.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/04 14:12
S85	2	JP-2000208130-\$2.did.	JPO; DERWENT	OR	ON	2009/03/04 14:32
S86	1	"4592970".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/04 16:01



S87	2	"20040234846".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/08 15:38
S88	63	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) with (slop\$3 concave taper\$3 funnel gradient inclin\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/08 15:49
S89	705	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) same (insulat\$4 dielectric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/10/08 15:49
S90	7085	429/57,72,82,94,122,163,164,174,175,185.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/08 15:49
S91	622	S90 and ((Port hole inlet inject injection) near3 electrolyt\$4)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/10/08 15:49
S92	29	"429"/\$.ccls. and ((Port hole inlet) near3 electrolyt\$4) with (slop\$3 inclin\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:49
S93	29	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) and (slop\$3 inclin\$3)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:49
S94	107	"429"/\$.ccls. and ((Port hole inlet inject injection) near3 electrolyt\$4) with (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:49
S95	216	(battery (electrochemical near3 (cell device))) and ((Port hole inlet inject injection) near3 electrolyt\$4) and (inside outside exterior interior inner outer surface face interal external) and (size diameter area larg\$3 small\$3 big\$4)	FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:49

S96	255	samsung.as. and (battery (electrochemical near3 (cell device))) and (inject injection) and electrolyt\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:49
S97	239	((S88 S89 S91) and @pd>"20080624") ((S92 S93 S94 S95 S96) and @pd>"20090303")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:49
S98	10	((SU-JIN) near2 (HAN)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:59
S99	33	((CHANG-SEOB) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:59
S100	4	((YOON-TAI) near2 (KWAK)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:59
S101	5	((SOO-YOUN) near2 (MAENG)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:59
S102	45	((JU-HYUNG) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/10/08 15:59
S103	15	((SU-JIN) near2 (HAN)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:59
S104	63	((CHANG-SEOB) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 15:59

S105	12	((YOON-TAI) near2 (KWAK)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 16:00
S106	5	((SOO-YOUN) near2 (MAENG)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 16:00
S107	67	((JU-HYUNG) near2 (KIM)).INV.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 16:00
S108	6	(S103 S104 S105 S106 S107) and @pd>"20080620"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/10/08 16:01

### EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S109	3142	429/163,164,167,170,171,178,179.ccls.	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:01
S110	1162	S109 and (secondary recharg\$5)	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:02
S111	283	S109 and (secondary recharg\$5) and ((Port hole inlet inject \$4 injection) near3 electrolyt\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:02

S112	213	S109 and (secondary recharg\$5) and ((Port hole inlet inject \$4 injection) near3 electrolyt\$4) and (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:03
S113	6	S109 and ((secondary recharg\$5) and ((Port hole inlet inject \$4 injection) near3 electrolyt\$4) and (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:04
S114	22	((battery (electrochemical near3 cell)) and (secondary recharg \$5) and ((Port hole inlet inject\$4 injection) near3 electrolyt \$4) and (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:05
S115	17	S109 and (((Port hole inlet inject\$4 injection) near3 electrolyt \$4) and (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)).clm.	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:06
S116	11	S115 not S113	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:06
S117	57	((battery (electrochemical near3 cell)) and ((Port hole inlet inject\$4 injection) near3 electrolyt\$4) and (inside outside exterior interior inner outer surface face interal external) with (size diameter area larg\$3 small\$3 big\$4)).clm. not S115 not S113 not S114	US-PGPUB; USPAT; UPAD	OR	ON	2009/10/08 16:07

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